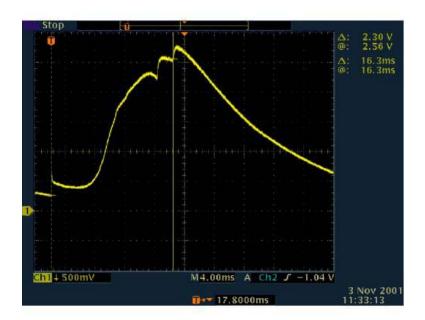
NPDGamma Beam Monitors - Status and Preparations for 2005 Running

- Current inventory of dc coupled, ³He ionization chambers:
 - 2 "thin" detectors for ³He polarizer and flux monitoring
 - 1 "thick" detector for downstream
 - 1 spare with gas valve, currently set up as "thick"
- All working:
 - charge per neutron measured
 - ³He thickness measured
 - noise is acceptably small
 - HV and preamps exist and tested



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NPDGamma Beam Monitors -- cont'd

 Software for beam intensity and ³He system analysis working and tested during the 2004 run

(neutron beam polarization is calculated from ³He cell transmission measured by upstream beam monitors)

Remaining Jobs:

- O. Explore activation/pedestal issue by looking again at 2004 data.
- Add software for target characterization plus long term tracking of beam & ³He parameters - issue, we need to interface with target Monte Carlo - who is doing this?
- 2. Finish beam monitor "user's manual" with documentation & calibration data
- 3. build a few more preamps for the thick monitor with different gain and also upstream spare
- 4. Write instrumentation paper.

